

HiDura™ S2X NT

polyamide 610



HiDura S2X NT is a medium viscosity PA610 grade with 62% bio-based content. It is suitable for monofilament, film, and general purpose injection molding applications. PA610 offers a unique balance of thermal, mechanical, and physical properties.

General

Regional Availability	• North America	• Europe	• Asia Pacific
Features	• Abrasion Resistance • Medium-High Viscosity	• Chemical Resistant	• Good Strength
Appearance	• Natural Color		
Forms	• Pellets		
Processing Method	• Casting • Other Extrusion	• Film Extrusion • Profile Extrusion	• Injection Molding • Sheet Extrusion

Physical

	dry	cond.	Unit	Test Standard
Density	1.07	-	g/cm ³	ISO 1183
Molding Shrinkage				ISO 294-4
Across Flow : 23°C, 2.00 mm	1.6	*	%	
Flow : 23°C, 2.00 mm	1.8	*	%	

Mechanical

	dry	cond.	Unit	Test Standard
Tensile Modulus (23°C)	2100	1100	MPa	ISO 527-2
Tensile Stress (Yield, 23°C)	61	61	MPa	ISO 527-2
Tensile Strain (Break, 23°C)	220	300	%	ISO 527-2
Flexural Modulus (23°C)	2000	1000	MPa	ISO 178
Flexural Strength (23°C)	60	27	MPa	ISO 178

Impact

	dry	cond.	Unit	Test Standard
Charpy Notched Impact Strength				ISO 179/1eA
+23°C	5.7	9.1	kJ/m ²	
-30°C	6.9	4.5	kJ/m ²	
-40°C	6.7	4.4	kJ/m ²	
Charpy Unnotched Impact Strength				ISO 179/1eU
+23°C	N	N	kJ/m ²	
-30°C	N	N	kJ/m ²	
-40°C	N	N	kJ/m ²	
Notched Izod Impact Strength				ISO 180/1A
+23°C	4.8	6.7	kJ/m ²	
-30°C	5	4.4	kJ/m ²	
-40°C	4.6	5.1	kJ/m ²	

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Thermal	dry	cond.	Unit	Test Standard
Heat Deflection Temperature				ISO 75-2/A
1.80 MPa, Unannealed	50	-	°C	
0.45 MPa, Unannealed	128	-	°C	
Melting Temperature	225	*	°C	ISO 11357-3

Electrical	dry	cond.	Unit	Test Standard
Dielectric Strength (1.00 mm)	33	28	kV/mm	IEC 60243

HiDURA™